IRS	s	52		
Groundwater Route Score (Sgw)	66.67	4444,89		
Surface Water Route Score (Saw)	9.23	85.19		
Air Route Score (Sa)	0	0		
$s_{gw}^2 + s_{sw}^2 + s_a^2$		4530.08		
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2}$		67.31		
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2} / 1.73 = s_M =$		38,91		

WORKSHEET FOR COMPUTING SM

PRO	s	s²		
Groundwater Route Score (Sgw)	80.77	6523,79		
Surface Water Route Score (S _{Sw})	12.31	151,54		
Air Route Score (Sa)	0	0		
$s_{gw}^2 + s_{sw}^2 + s_a^2$		4675.33		
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_4^2}$		81.70		
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2} / 1.73 - s_M -$		47.23		

DECLASSIFIED

WORKSHEET FOR COMPUTING SM



			Ground Wate	Route Work	Sheet			
	Rating Factor		Assigned (Gircle)		Mul	LIB	S Max. Score	PRO
	Observed Releas		0	45	1	0	45	45
	If observed releas	se is give: se is give:	n a score of 45, p	roceed to line	• 4. 2	·		
2	Route Characteris Depth to Aquife Concern		0 1 2 (<u> </u>	2	6	6	
	Net Precipitation Permeability of t Unsaturated Zo	the	0 1 @ 0 1 @	3 3	1 1	(1)	3 3	
	Physical State		0 1 2 (3	1	3	3	
নে	- Comments and the second seco		Total Route Char	ecteristics Sc	ore	13	15	
<u> </u>	Containment		0 1 2 (9	1	3	3	
<u>a</u>	Waste Characterist Toxicity/Persiste Hazardous Waste Quantity	ence	0369	3 12 15 (13) 17 4 5 8	7 8 1	®	18 8	[8] [3]
		1	otal Waste Chara	ctenstics Sco	ore	20	26	[2]
5	Targets Ground Water Us Distance to Neare Well/Population Served	est	0 1 2 0 4 6 12 16 18 24 30 32	(0) 20 35 (60)	3 1	9	9 40	9 40
2] 11	line 11 is 45. m	nultiply 1	Total Target	s Score		49	49.	म् ब
11	line 1 is 0, mu	iltiply [2]	x 3 x 4 x	5	ė –	38,220		16,305
			=		- Jgw -	(60.67	<u>ソ</u> し	80,77

		Su	rface	W e	Vate	r Ře	uta Wa	rk Shee			Luci	
	Rating Factor		As	181	gne	d Va	lue		Multi-	HRS	Max. Score	PRO
0	Observed Release		Ó			-	45		1	(45)	45	1451
	If observed release i	s given a vall s given a vall	ue of	f 4	5, p	ocee	ed to lin	ine 4.			<u>. </u>	
2	Route Characteristics)		1	2	3		- v water	1		<u>-</u>	
	Terrain 1-yr. 24-hr. Rainfail		0	1	2	3			•		3	
	Distance to Neares Water	t Surface	0	1	2	3			2		8	
ď	Physical State		0	1	2	3			1		3	4144
		Total F	oute	Ò	he	recte	ristics	Score			15	
3	Containment		0	1	2	3			1		3	
4	Waste Characteristics Toxicity/Persistence Hazardous Waste Quantity		0 1	3	6 2	9 13	15 (6	7 8	1	(P)	18	[3]
		Total W	/aste	C	her	acte	ristics S	score		(22)	26	22
3	Targets Surface Water Use Distance to a Sensit Environment Population Served/0	_		1 1		2 :	3		3 2	(a)	9	6
_	to Water Intake Downstream	2	2 1 4 3	0	3	B 2	10	···	1	@	4.0	0
	<u> </u>	, 1	otal	Ţa	irge	ets S	core			6	55	3
_	filme 1 is 45, multi filme 1 is 0, multip	-	_	. [==	× [5940	64.350	7920
<u> </u>	livide line 6 by 64,	350 and mult	piy	by	10	9		s	sw ÷ (9.23)	12.31

	Air Rout	Work Sheet	* mm.i		F7 4-16	
Rating Factor	Assigned (Circle	Value One)	Multi-	HRS	Max. Score	PRO
1 Observed Release	0	45	1	0	45	0
Date and Location:						<u> U </u>
Sampling Protocol:	The same of the sa			· · · · · · · · · · · · · · · · · · ·		
If line 1 is 0, the S_a If line 1 is 45, then	- 0. Enter on line 3				 ,	
Waste Characteristics Reactivity and Incompatibility	0 1 2 3		1		3	
Toxicity Hazardous Waste Quantity	0 1 2 3 0 1 2 3		3 8 1	·	9	
					•	
Tainein	Total Waste Charact	eristics Score			20	
Targets Population Within 4-Mile Radius Distance to Sensitive	0 9 12 15 1 21 24 27 30	8	1		30	
Environment Land Use	0 1 2 3		2		6	
	•		1		3	ı
		·				
	Total Targets S	coré		3	9	
Multiply 1 x 2 x 3				35.1		
Divide line 4 by 35,100 a					30	

SITE NAME:

Photocircuits Division/Kollmorgen Corporation

SITE LOCATION:

31 Sea Cliff Avenue City of Glen Cove, Nassau County,

Long Island, New York

EPA SITE ID NUMBER:

NYD096920483

HAZARD RANKING SCORE:

 $S_{M}=37.45$ ($S_{gw}=64.03$, $S_{sw}=9.92$, $S_{a}=0$)

SFE=0, SDC=0

SITE DESCRIPTION

The Photocircuits Division/Kollmorgen Corporation site (Photocircuits), located at 31 Sea Cliff Avenue, Glen Cove, Long Island, produces printed circuit boards for the electronics industry. Circuit boards are first metal-plated with either copper, tin, nickel, or gold. Printed circuits are then etched on the boards with ammonia-base solutions and solder baths containing fluoroborates and fluoroboric acid. Trichloroethane and methylene chloride are used as cleaning solutions during formation of the printed circuits.

Past waste disposal practices at this site may be responsible for closure of the City of Glen Cove Carney Street well field. Between 1977 and 1981, chromium hydroxide sludges were stored on site in a clay-lined lagoon prior to off-site disposal. Use of this lagoon has since been discontinued. Further, unauthorized discharges of liquid wastes into the storm drain underlying the Photocircuits parking lot has been acknowledged by company officials. Surface water contamination of Cedar Swamp Creek and groundwater contamination in the vicinity of the site has been documented.

City of Glen Cove Carney Street wellfield, which includes three of their ten public supply wells, was closed in 1977 due to trichloroethylene (TCE) and tetrachloroethylene contamination. The Nassau County Health Department initiated an investigation into the source of contamination. The investigation included ten samples from various locations in the vicinity of Carney Street, including waste discharges, drains, groundwater and surface water from Cedar Swamp Creek. From these samples it was concluded that contamination was due to past waste discharges in an industrial area 1,000 feet south of the wellfield; however, the actual industry responsible was never identified. Two industries, Photocircuits Corporation and Slater Electric Company, were identified as two corporations in the area using solvents of the general type detected in the wells.

An Expanded Site Inspection conducted at the Photocircuits site should focus primarily upon the threat to the public drinking water supply for City of Glen Cove.